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File: JPAB

Mar 17, 1998

PUB-NO: JP410071199A

DOCUMENT-IDENTIFIER: JP 10071199 A

TITLE: ANTIMICROBIAL AGENT-CONTAINING ARTIFICIAL SKIN

PUBN-DATE: March 17, 1998

INVENTOR-INFORMATION:

NAME

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GUNZE LTD

APPL-NO: JP08229890

APPL-DATE: August 30, 1996

INT-CL (IPC): A61 L 27/00; A61 F 2/10

ABSTRACT:

PROBLEM TO BE SOLVED: To provide artificial skin having a sufficient and long lasting antimicrobial effect by incorporating a crosslinking type collagen sponge layer deposited with sulfadiazine silver into this skin.

SOLUTION: A sulfadiazine silver suspension and chloroform are added to a soln. prep'd. by diluting a collagen soln. with a dilute hydrochloric acid soln. and the mixture is stirred mechanically at a high speed by using a homogeneizer, by which the mixture is bubbled. This creamy soln. is then poured into a molding flask and is rapidly frozen at -40°C and is thereafter subjected to vacuum freeze drying, by which the collagen sponge having a three- dimensional structure is obtd. This sponge is subjected to a vacuum drying treatment for 24 hours at 105°C and further, the sponge after the thermal dehydration treatment is immersed into glutaraldehyde for 24 hours at 5°C by which chemical crosslinking is introduced therein. The sponge is then washed by using distilled water in order to remove the glutaraldehyde and is rapidly frozen at -135°C and, thereafter, the sponge is vacuum freeze dried, by which the collagen sponge matrix subjected to the thermal

dehydration and chemical crosslinking introduction is obtd.

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